



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

LM61/0706

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| APPLICATION NO. | FILING DATE | TOTAL CLAIMS | EXAMINER AND GROUP ART UNIT | DATE MAILED |
|-----------------------------|-------------|-------------------------|-----------------------------|---------------|
| 08/684, 130 | 07/19/96 | 027 | SAX, S | 2773 07/06/99 |
| First Named Applicant LAND, | | 35 USC 154(b) term ext. | = | 0 Days. |

TITLE OF INVENTION METHOD AND APPARATUS FOR PROVIDING MULTIPLE MANAGEMENT INTERFACES TO A NETWORK DEVICE

| ATTY'S DOCKET NO. | CLASS-SUBCLASS | BATCH NO. | APPLN. TYPE | SMALL ENTITY | FEES DUE | DATE DUE |
|-------------------|----------------|-----------|-------------|--------------|-----------|----------|
| 2 81862.P064 | 345-335.000 | V39 | UTILITY | NO | \$1210.00 | 10/06/99 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.

Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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| APPLICATION NUMBER | FILING DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NO. |
|--------------------|-------------|-----------------------|---------------------|
| 08/684, 130 | 07/19/96 | LAND | R 81862, P064 |

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| EXAMINER | |
|----------|-----------------------|
| SAX, S | ART UNIT PAPER NUMBER |

2773 11

DATE MAILED: 07/06/99

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

NOTICE OF ALLOWABILITY

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

This communication is responsive to Amdt A 6/14/99

The allowed claim(s) is/are 1-4, 6-18

The drawings filed on _____ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

because the originally filed drawings were declared by applicant to be informal.

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto to Paper No. 6

including changes required by the proposed drawing correction filed on _____, which has been approved by the examiner.

including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings.

The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152
- Interview Summary, PTO-413
- Examiner's Amendment/Comment
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Examiner's Statement of Reasons for Allowance

[Signature]
A.V. 2773

Art Unit:

DETAILED ACTION

1. This application has been examined.

2. The amendment filed 6/14/99 has been entered. Per applicant request, claims 5 and 19-27 have been cancelled.

3. The following is an examiner's statement of reasons for allowance: Application shows a novel network device with a multilayer management interface which is configured to receive different sets of messages according to different protocols from different sources. The prior art shows network management systems which may exchange messages according to respective protocols within two interface layers, but the present invention goes beyond in supporting a third interface layer configured to receive commands from a user and in response send a fourth set of messages to the first interface layer according to the first protocol, and receive responses to generate a display. The first layer is a combined text interface generator and HTTP client. The second layer is a combined HTTP server and Simple Network Management Protocol (SNMP) manager. The third layer is a SNMP agent that has direct access to the configuration data of the access device. The features of the present invention of embedding and transferring of different sets of messages in different protocols from different sources, as brought out in the present invention, are not set forth in the prior art of record.

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Independent claim 1, amended, shows the network device with the three interface layers. The first interface layer is configured to receive a first set of messages from a first set of sources according to a first protocol, send a second set of messages according to a second protocol in response to the first set of messages, and send responses to the first set of sources according to the first protocol. The second interface layer is configured to receive a third set of messages, including a message from the second set, from a second set of sources including the first layer, according to the second protocol; update configuration data of the network device in response to receiving the third set of messages; and send responses to the third set of sources according to the second protocol. The third interface layer is configured to receive commands from a user, send a fourth set of messages to the first interface layer according the first protocol in response to the commands, receive responses to the fourth set of messages from the first interface layer according to the first protocol, and generate a display. Independent claim 7 shows the method, and brings out the HTTP and SNMP types.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Steve Sax, whose telephone number is (703) 305-9582. The examiner can

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normally be reached on M - F from 9:30 - 6:00 ET. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim, can be reached at (703) 305-3821.

5. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.



Steve Sax, Au. 2773